

KANAB CREEK BASIN
09403600 KANAB CREEK NEAR KANAB, UT

LOCATION.--Lat 37°06'02", long 112°32'50", in NE¹/₄NE¹/₄SW¹/₄ sec. 5, T. 43 S., R. 6 W., Kane County, Hydrologic Unit 15010003, on left bank at upstream side of bridge on U.S. Highway 89, 300 ft upstream from Tiny Canyon and 3.5 mi north of Kanab.

DRAINAGE AREA.--198 mi².

PERIOD OF RECORD.--July 1959 to September 1968 (peaks only). January 1979 to current year

REVISED RECORDS.--WDR UT-98-1: 1997, daily values.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,060 ft above NGVD of 1929, from topographic map. A crest-stage gage from July 22, 1959 to September 30, 1968 at different datum. July 6, 1979 to September 18, 1984 water-stage recorder at same site, different datum.

REMARKS.--Records poor. Several diversions above station for irrigation and stock watering.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,030 ft³/s, Sep 8, 1961, gage height, 8.39 ft, from rating curve extended above 31 ft³/s on basis of slope area measurement at gage height, 7.09 ft; minimum daily discharge, 2.9 ft³/s, Jul 27, 2000.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug 19	1845	*237	*9.93

Minimum daily discharge, 2.9 ft³/s, Oct 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	4.0	6.7	6.6	7.5	e6.5	7.6	7.1	4.3	6.4	6.3	4.9
2	4.1	4.7	6.6	6.0	7.3	e7.0	7.7	6.9	4.0	6.3	6.4	4.9
3	6.0	4.6	7.0	6.3	7.8	e7.0	7.8	6.8	3.9	5.9	6.1	4.7
4	4.2	5.2	6.9	e6.0	7.6	6.8	7.4	6.5	4.0	5.9	5.9	4.9
5	3.9	5.8	6.9	e5.5	7.4	6.8	7.8	6.4	3.9	5.7	5.5	5.1
6	3.6	5.7	7.1	e6.0	7.3	6.8	7.3	6.6	3.9	5.6	6.3	5.0
7	3.3	5.1	6.7	7.2	7.4	6.6	9.1	6.7	e4.0	5.7	14	4.8
8	3.2	5.3	7.3	7.5	7.2	7.2	9.9	6.6	e3.8	5.8	4.8	4.9
9	3.2	4.9	6.7	7.1	7.2	8.6	10	6.2	e3.8	6.1	4.8	4.9
10	3.1	5.2	6.6	6.8	7.4	12	10	6.2	e3.8	6.3	5.4	4.8
11	3.0	5.6	6.9	5.8	7.5	21	9.9	5.9	e3.9	6.0	5.6	4.8
12	3.0	6.2	6.9	5.7	7.5	19	9.4	6.1	e3.9	6.1	5.8	4.9
13	3.0	6.2	6.6	5.7	7.8	27	9.4	6.5	e3.9	5.1	6.1	4.7
14	3.2	6.1	6.7	5.5	7.6	38	9.3	6.5	e4.2	5.6	6.4	5.0
15	3.1	6.1	7.0	5.3	7.6	37	8.8	6.1	4.2	6.2	6.4	5.2
16	2.9	6.4	8.1	5.7	7.7	23	8.3	6.4	4.6	6.1	5.5	5.2
17	3.2	6.0	8.1	5.1	7.4	22	8.1	6.4	4.9	5.6	5.0	5.2
18	3.2	6.3	7.5	4.9	7.5	22	8.7	6.1	4.5	6.4	5.1	5.1
19	3.6	6.6	7.8	5.0	7.7	23	7.8	5.3	4.5	6.1	51	8.3
20	3.5	6.6	8.0	5.2	7.2	22	7.7	5.4	4.5	5.7	22	6.3
21	3.4	6.5	7.9	5.2	7.0	19	7.2	5.7	4.6	6.1	5.1	6.4
22	3.4	6.9	8.5	5.0	6.7	15	6.8	6.0	5.0	6.0	5.2	6.7
23	3.8	8.2	8.7	5.1	6.6	11	6.7	6.1	5.1	6.0	5.6	6.3
24	3.6	7.4	8.1	5.0	6.8	9.0	6.7	5.7	5.2	6.2	5.6	6.1
25	3.5	7.0	7.3	5.3	7.1	7.0	6.5	5.2	5.6	7.1	5.6	6.0
26	4.0	7.5	7.8	6.5	e7.5	6.5	6.3	5.0	5.3	7.0	5.4	5.8
27	4.2	7.4	8.0	6.5	e7.0	6.6	6.3	4.8	5.7	8.3	5.2	5.8
28	3.7	7.4	15	6.1	e6.5	7.2	6.1	4.8	6.3	8.4	5.2	e6.2
29	3.8	7.2	8.6	6.2	e6.5	7.3	6.9	4.9	6.5	7.1	5.4	e6.7
30	3.7	7.0	7.1	6.8	---	7.4	7.7	5.0	6.7	6.9	5.1	e6.1
31	3.6	---	6.5	7.6	---	7.0	---	4.3	---	7.0	4.9	---
TOTAL	110.8	185.1	235.6	184.2	211.3	432.3	239.2	184.2	138.5	194.7	242.7	165.7
MEAN	3.57	6.17	7.60	5.94	7.29	13.9	7.97	5.94	4.62	6.28	7.83	5.52
MAX	6.0	8.2	15	7.6	7.8	38	10	7.1	6.7	8.4	51	8.3
MIN	2.9	4.0	6.5	4.9	6.5	6.5	6.1	4.3	3.8	5.1	4.8	4.7
AC-FT	220	367	467	365	419	857	474	365	275	386	481	329

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)
	9.99	25.7	(1982)	3.57	(2004)	10.5	21.7	(1980)	5.31	(1990)	12.0	45.1	(1980)	5.15	(2002)
	9.69	15.2	(1988)	5.33	(2002)	10.5	21.7	(1980)	5.31	(1990)	12.0	45.1	(1980)	5.15	(2002)
	10.5	21.7	(1980)	5.31	(1990)	12.0	45.1	(1980)	5.15	(2002)	15.4	45.1	(1980)	5.64	(2002)
	12.0	27.9	(1997)	5.15	(2002)	15.4	45.1	(1980)	5.64	(2002)	23.7	72.4	(1983)	8.83	(2002)
	15.4	45.1	(1980)	5.64	(2002)	23.7	72.4	(1983)	8.83	(2002)	21.2	132	(1980)	6.81	(1990)
	21.2	132	(1980)	6.81	(1990)	21.2	132	(1980)	6.81	(1990)	9.41	27.6	(1980)	5.62	(2001)
	9.41	27.6	(1980)	5.62	(2001)	6.83	12.1	(1981)	4.36	(1986)	6.98	13.8	(1981)	3.90	(2000)
	6.83	12.1	(1981)	4.36	(1986)	6.98	13.8	(1981)	3.90	(2000)	8.13	16.5	(1981)	4.07	(1995)
	6.98	13.8	(1981)	4.07	(1995)	8.13	16.5	(1981)	4.07	(1995)	9.62	28.1	(1998)	4.77	(2002)
	8.13	16.5	(1998)	4.77	(2002)	9.62	28.1	(1998)	4.77	(2002)					

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1980 - 2004
ANNUAL TOTAL	3,254.2	2,524.3	
ANNUAL MEAN	8.92	6.90	11.9
HIGHEST ANNUAL MEAN			28.4 1980
LOWEST ANNUAL MEAN			5.96 2002
HIGHEST DAILY MEAN	85Mar 17	51Aug 19	354Apr 6, 1980
LOWEST DAILY MEAN	2.9Oct 16	2.9Oct 16	2.9Jul 27, 2000
ANNUAL SEVEN-DAY MINIMUM	3.0Oct 10	3.0Oct 10	3.0Jun 13, 1986
ANNUAL RUNOFF (AC-FT)	6,450	5,010	8,640
10 PERCENT EXCEEDS	14	8.3	18
50 PERCENT EXCEEDS	7.1	6.3	8.6
90 PERCENT EXCEEDS	3.9	4.0	5.1